

ALIPHATIC POLYESTER AND ITS PRODUCTION

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Inventor: SAKANE MASANORI; TANIGAWA MITSUYO
Applicant: DAICEL CHEM
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Abstract of JP2000143781

PROBLEM TO BE SOLVED: To obtain an aliphatic polyester having controlled thermal decomposition property, hydrolyzability and biodegradability without varying various other physical properties.

SOLUTION: An aliphatic polyester is produced by the ring-opening polymerization of a lactone (e.g. ϵ -caprolactone) or a lactide (e.g. lactic acid) using a high-boiling monoalcohol (e.g. hexanol) or a metal alkoxide (e.g. an aluminum alkoxide) as an initiator to decrease the contents of alcohol terminal and carboxylic acid terminal to $\leq 50\%$ and $\leq 30\%$, respectively. The contents of alcohol terminal and carboxylic acid terminal can be further decreased by bonding the terminals of the obtained polymer with a diisocyanate, etc.

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